

HOW TO MAKE AN Emergency Condenser

• Timely Hints for Car Owners •

LAYERS of tin foil spaced by specially prepared paper constitute the condenser connected across the breaker points of the automobile ignition system. Assuming that the condenser goes bad when you are far from a service station, it is possible to work out a last resort emergency repair as shown in Fig. 1. Remove the tail-light wire, the number plates, and your shoe strings. Place the number plates with a single layer of your handkerchief between, making sure that the handkerchief cloth extends at all edges. Tie the plates together with a couple of pieces of board, if available, and connect as shown.

Tube for Radiator

A NOVEL form of radiator connection is shown in Fig. 3. Instead of a continuous piece of rubber hose between the outlet on the cylinder head and the upper radiator connection, a tube of pyrex glass is used as indicated. The ends of the glass tube should be flared sufficiently to prevent slipping. The glass tube serves as water gage and also eliminates trouble with poor circulation caused by rotting hose. The idea should be especially valuable on cars used only locally for short trips in winter, a service that permits the use of kerosene for antifreeze.

To Hold the Gasket

THERE are several ways to keep the gasket in place while refitting the oil pan. One standard way, for example, is to use studs. Figure 2 shows a simple method that calls for no special apparatus. Place the gasket on the oil pan and tie it in place at several points with fine silk thread so that the holes will be properly lined up. Bolt the oil pan to the crank case in the usual way. It will not be necessary

Fig. 2. To keep the gasket in place while replacing oil pan, tie it at several points with fine silk thread. It is not necessary to remove this thread after the pan is bolted in place

Emergency Condenser Wins a Reward

This month we award a \$10 prize to O. N. Gien, Carmel, Calif., for his plan for making a temporary repair of a condenser (see Fig. 1). Contributions are requested from auto mechanics, and if printed will be paid for at usual rates.

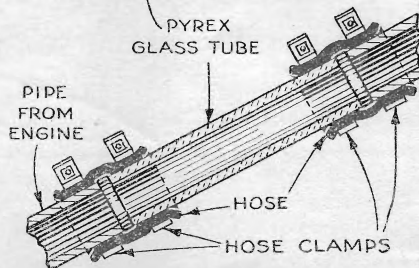
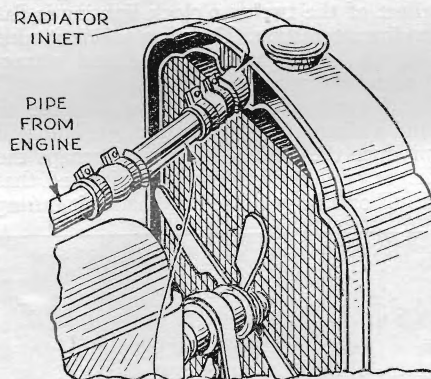


Fig. 3. A glass tube, flared to prevent slipping, can be used to form novel radiator connection

to remove the thread, as it will not interfere with passing the bolts through the holes, nor will it cause leaks.

New Valve Stem

WHEN a tire tube valve stem is accidentally broken or badly bent, it is necessary to replace it with a new one. This is difficult, as the hole in the tube into which the stem is clamped is small and the rubber at that point is usually reinforced. A solution is to cut a slit in the tube opposite the valve hole and replace through

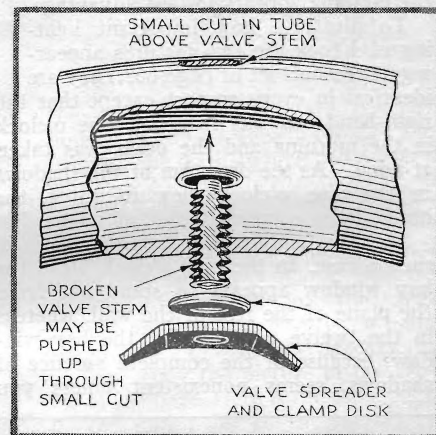
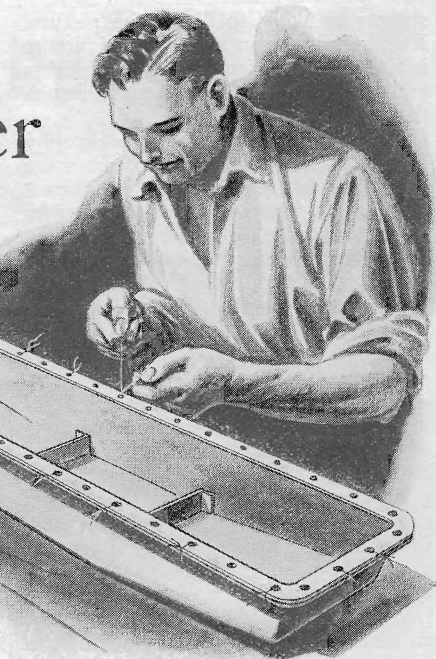


Fig. 4. To put in a new tire tube valve stem, cut a slit in tube and insert stem through it

this hole. A patch over the slit completes the operation (see Fig. 4).

A Cleaning Spray

A SIMPLE way to make the pressure in the water mains operate an engine cleaning spray is shown in Fig. 5. First fill a tank with kerosene. Then turn on the water. The water, being heavier, forms a rising layer under the kerosene.

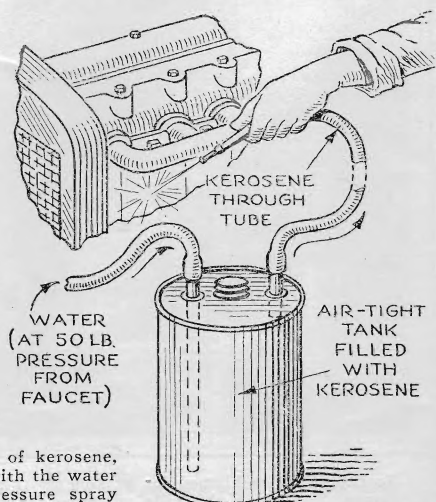


Fig. 5. Can of kerosene, connected with the water main, is pressure spray

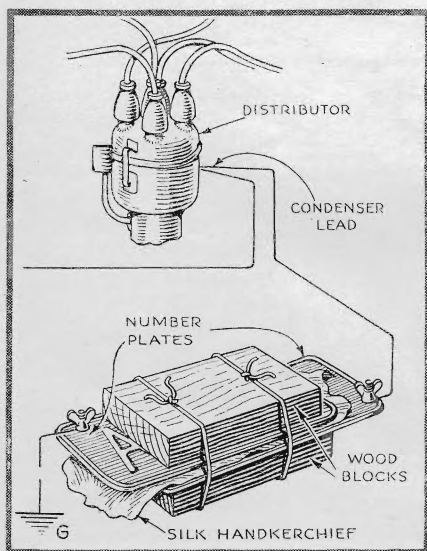


Fig. 1. License plates tied with handkerchief between serve as emergency condenser